

CLAIMS

1. In a soda-lime-silica series glass, an ultraviolet and infrared absorptive greenish glass, which is characterized in that, in an expression of weight %, it comprises at least coloring components of 0.3-0.5% of total Fe_2O_3 , 0.8-2.0% CeO_2 , 0.8-2.0% TiO_2 , and 0.10-0.25% FeO , and that the glass at 5mm thickness is 9% or less in ultraviolet transmittance (T_{uv}) according to ISO/DIS9050, 1% or less in 350nm wavelength transmittance (T_{350}), 70% or greater in 550nm wavelength transmittance (T_{550}), and 25% or less in 1100nm wavelength transmittance (T_{1100}).
2. An ultraviolet and infrared absorptive greenish glass according to claim 1, which is characterized in that, in an expression of weight %, it comprises 67-75% SiO_2 , 0.5-3.0% Al_2O_3 , 7.0-11.0% CaO , 2.0-4.2% MgO , 12-16% Na_2O , 0.5-3.0% K_2O , and 0.05-0.3% SO_3 in addition to the coloring components of the glass, that the sum of these components and the coloring components is 98% or greater, and that $\text{SiO}_2+\text{Al}_2\text{O}_3+\text{TiO}_2$ amounts to 70-76%, $\text{CaO}+\text{MgO}$ amounts to 10-15%, and $\text{Na}_2\text{O}+\text{K}_2\text{O}$ amounts to 13-17%.
3. An ultraviolet and infrared absorptive greenish glass according to claim 1 or claim 2, which is characterized in that $\text{FeO}/\text{Fe}_2\text{O}_3$ is 0.3-0.6 in weight ratio expression and that $\text{CeO}_2/\text{TiO}_2$ is 0.7-1.3 in weight ratio expression.
4. An ultraviolet and infrared absorptive greenish glass according to any of claims 1 to 3, which is characterized in that at 5mm thickness visible light transmittance (T_v) by A light source is 67% or greater, solar radiation transmittance (T_s) is 48% or less, dominant wavelength (D) by D_{65} light source is 510-560nm, and excitation purity (Pe) is 10% or less.

5. An ultraviolet and infrared absorptive greenish glass according to any of claims 1 to 4, which is characterized in comprising 5.50 ppm Cr_2O_3 , 0.200 ppm MnO and 0.1-1.0% SnO as coloring components in weight % expression.

5 6. An ultraviolet and infrared absorptive greenish glass according to claim 1, which is characterized in that CeO_2 amounts to 0.8-1.5% and TiO_2 amounts to 0.8-1.5%, and that it comprises at least 0.1-0.7% SnO as a coloring component in weight % expression.

10 7. An ultraviolet and infrared absorptive greenish glass according to claim 6, which is characterized in that it comprises in weight % expression 67-75% SiO_2 , 0.5-3.0% Al_2O_3 , 7.0-11.0% CaO , 2.0-4.2% MgO , 12-16% Na_2O , 0.5-3.0% K_2O , and 0.05-0.3% SO_3 in addition to the coloring components of the glass, that the sum of these components and the coloring components is 98% or greater, and that $\text{SiO}_2+\text{Al}_2\text{O}_3+\text{TiO}_2$ amounts to 70-76%, $\text{CaO}+\text{MgO}$ amounts to 10-15%, and $\text{Na}_2\text{O}+\text{K}_2\text{O}$ amounts to 13-17%.

15 8. An ultraviolet and infrared absorptive greenish glass according to claim 6 or claim 7, which is characterized in that $\text{FeO}/\text{Fe}_2\text{O}_3$ is 0.3-0.6 in weight ratio expression and that $\text{CeO}_2/\text{TiO}_2$ is 0.7-1.3 in weight ratio expression.

20 9. An ultraviolet and infrared absorptive greenish glass according to any of claims 6 to 8, which is characterized in that at 5mm thickness visible light transmittance (T_v) by A light source is 67% or greater, solar radiation transmittance (T_s) is 48% or less, dominant wavelength (D) by D_{65} light source is 510-560nm, and excitation purity (Pe) is 10% or less.

25 10. An ultraviolet and infrared absorptive greenish glass according to any of claims 6 to 9, which is characterized in comprising 5.30 ppm Cr_2O_3 and 0-200 ppm MnO as coloring components in weight expression.